FIG. 1 OF 15 REPLACEMENT SHEET

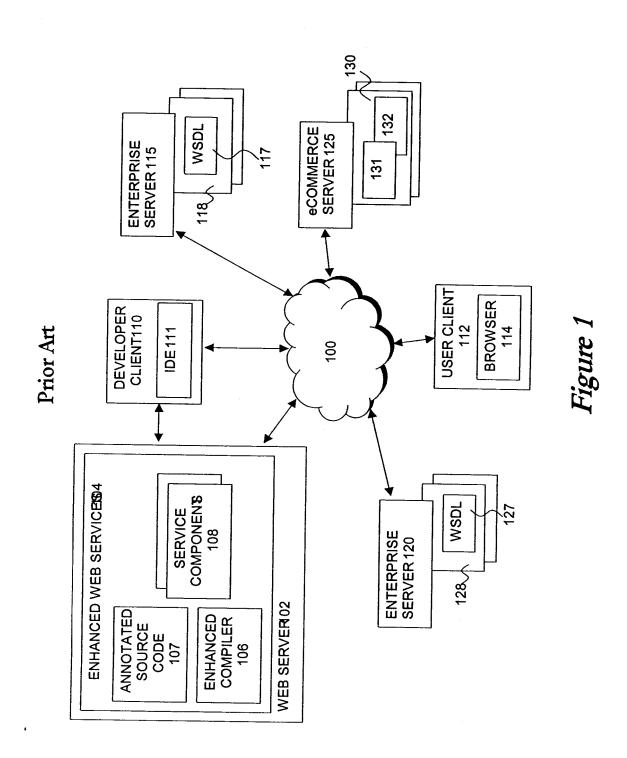


FIG. 2 OF 15 REPLACEMENT SHEET

<pre>/* @Operation * @Conversation Start */ void newBasket() { }</pre>	
	// creates a new item list
<pre>@Operation @Conversation Continue */ d additem(Item i) { }</pre>	// continues an existing conversation // using the associated item list
* @Operation * @Conversation Finish */ oid checkout(Payment p) { }	// finishes an existing conversation // and deletes the associated item list
<pre>@Operation @Conversation Finish @buffer */ id cancel() { }</pre>	// finishes an existing conversation // and deletes the associated item list
Operation */ activeBaskets() { }	// stateless method // returns number of baskets in use
اہ ُ ند سہ اُ	n Finish } ts() { }

Figure 2

FIG. 3 OF 15 REPLACEMENT SHEET

```
public String greeting (String firstname, String lastname)
                                                                                                                                                                                                                                                                           new java.text.SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
                                                                                                                                                                                                                                                                                                                                              return "Hello " + firstname + " " + lastname +
                                                                                                                                                                                                  Calendar.getInstance(TimeZone.getDefault());
                                                                                                                                                                                                                                                                                                                                                                                  " at " + sdf.format(cal.getTime());
                                                                                                                                                                                                                                         SimpleDateFormat sdf =
                                                                                                                                                                Calendar cal =
* @operation
```

Figure 3A

```
<m:greeting xmlns:m="http://www.company.com/app/mypackage/CreditReport.jws">
                                                                                                                                                                                                                                                                         soap:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"/>
                                                                                                                                                                                    <soap:Envelope
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"</pre>
                                                                                                                                                                                                                                           xmlns:cgc="http://bea.com/SOAP/conversation"
POST /app/mypackage/CreditReport.jws HTTP/1.1
                                                                                                                                                                                                                                                                                                                                                                                                                                      <firstname>Jane</firstname>
                                                           Content-Type: text/xml; charset="utf-8"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <lastname>Doe</lastname>
                                                                                                                      SOAPAction: "Some-URI"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            </m:greeting>
                             Host: www.company.com
                                                                                         Content-Length: 648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 </bod>
                                                                                                                                                                                                                                                                                                                                  </soap:Header>
                                                                                                                                                                                                                                                                                                       <soap:Header>
                                                                                                                                                                                                                                                                                                                                                                  <soap:Body>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  </soap:Envelope>
```

Figure 3B

FIG. 4 OF 15 REPLACEMENT SHEET

```
xmlns:m="http://www.company.com/app/mypackage/CreditReport.jws">
                                                                                                                                                                                                                                                                                                                                                                             <result>Hello Jane Doe at 2001-08-15 16:18:04</result>
                                                                                                                                                                                  soap:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"/>
                                                                                                                                                xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
                             Content-Type: text/xml; charset="utf-8"
                                                                                                                                                                                                                                                                                                                                                                                                                 </m:greetingResponse>
                                                                                                                                                                                                                                                                                                       <m:greetingResponse</pre>
                                                           Content-Length: 574
                                                                                                                                                                                                                                           </soap:Header>
                                                                                                                                                                                                                <soap:Header>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     </soap:Envelope>
HTTP/1.1 200 OK
                                                                                                                                                                                                                                                                                                                                                                                                                                                       </soap:Body>
                                                                                                                    <soap:Envelope
                                                                                                                                                                                                                                                                           <soap:Body>
```

Figure 3C

```
<c:conversationID>4232-133214-3223132:42332-3144-2332251</c:conversationID>
<8:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/"</p>
                            xmlns:c="http://openuri.org/soap/conversation/">
                                                                                                                                                                   http://original.com/foo/Callbacks.jwi
                                                                                                                                                                                                  </c:defaultCallbackURL>
                                                                                                                              <c:defaultCallbackURL>
                                                                                                                                                                                                                                                                                                        <!-- contents omitted -->
                                                                                                                                                                                                                                       </s:Header>
                                                           <s:Header>
                                                                                                                                                                                                                                                                                                                                                             </s:Envelope>
                                                                                                                                                                                                                                                                                                                                       </8:Body>
                                                                                                                                                                                                                                                                       <s:Body>
```

Figure 4

FIG. 5 OF 15 REPLACEMENT SHEET

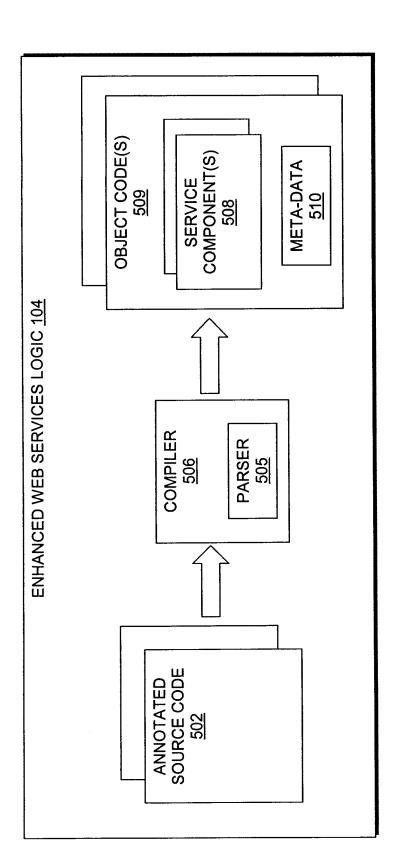


Figure 5

FIG. 6 OF 15 REPLACEMENT SHEET

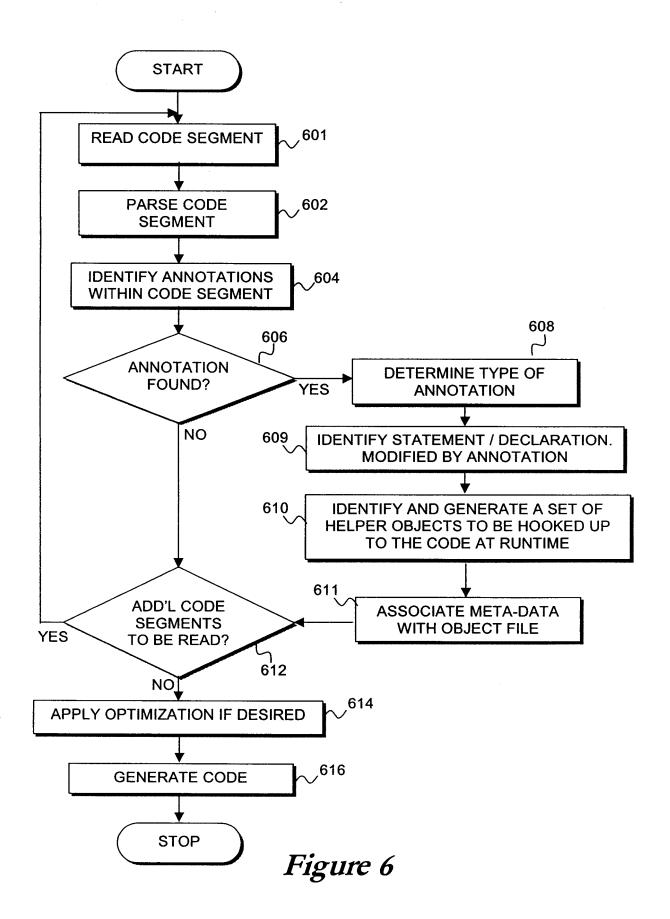


FIG. 7 OF 15 REPLACEMENT SHEET

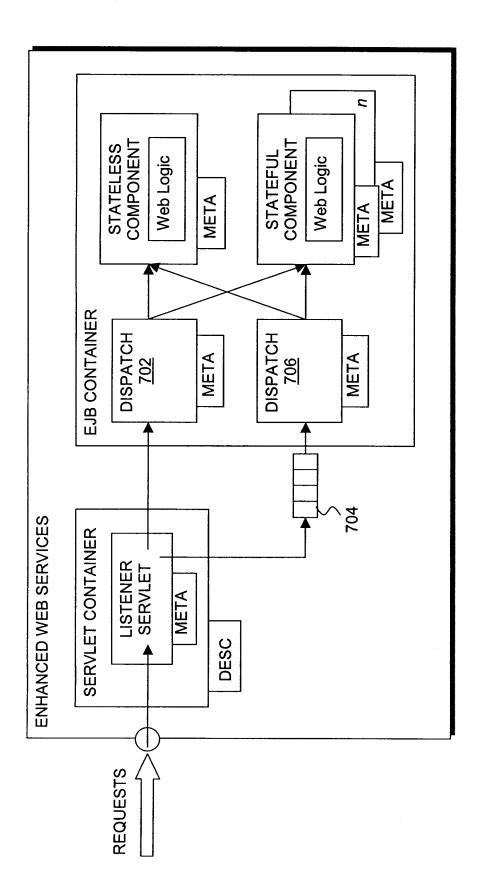


Figure 7

FIG. 8 OF 15 REPLACEMENT SHEET

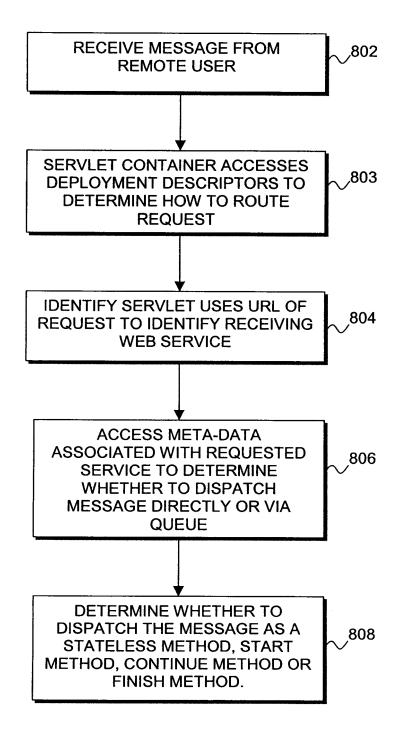


Figure 8

FIG. 9 OF 15 REPLACEMENT SHEET

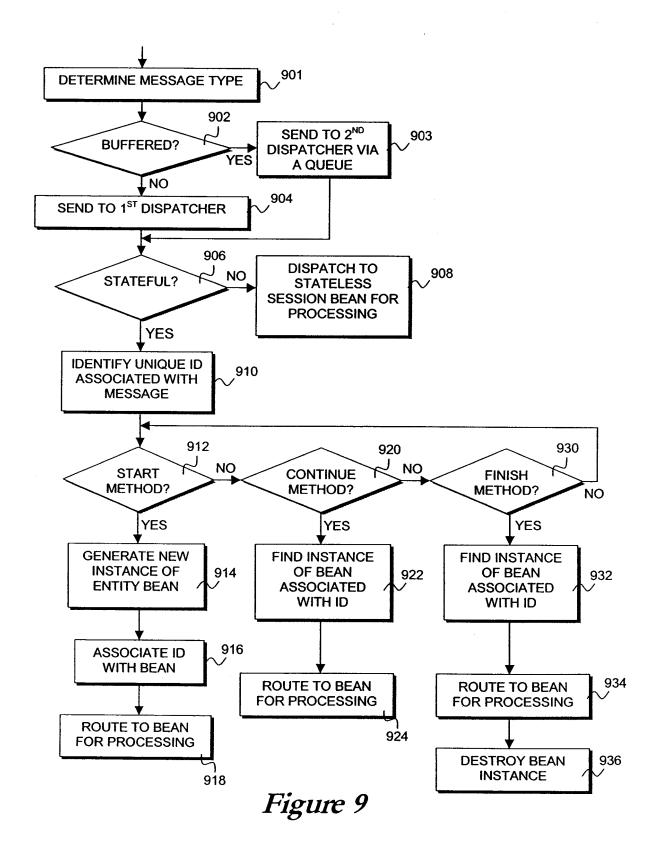


FIG. 10 OF 15 REPLACEMENT SHEET

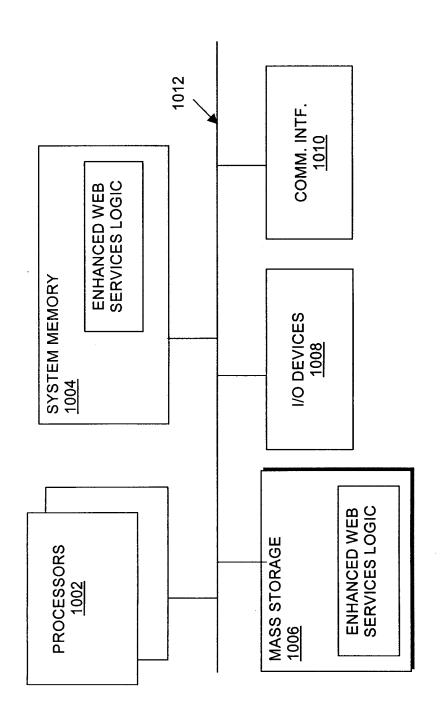


Figure 10

FIG. 11 OF 15 REPLACEMENT SHEET

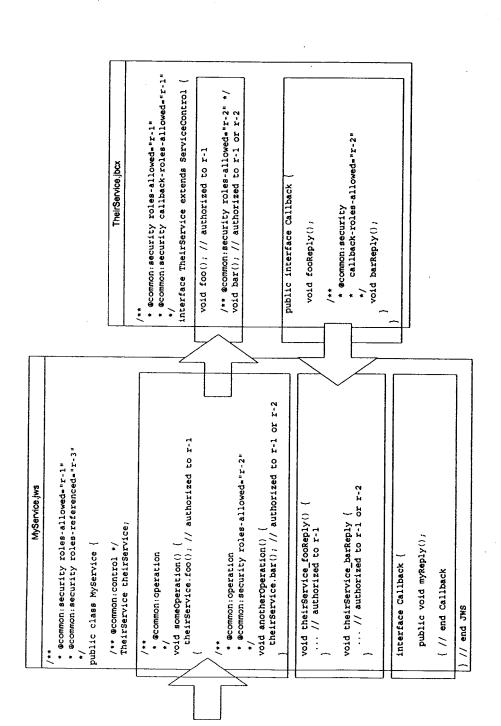


Figure 11

FIG. 12 OF 15 REPLACEMENT SHEET

Using run-as≈*<start-user>" will cause the Subject that *started* the conversation to be bound to all continue∣finish calls from the JW(X).

- 1. Invoke privileges on Control operations will be evaluated with respect to the roles granted to the starting Principal 2. From within called Controls:



Figure 12

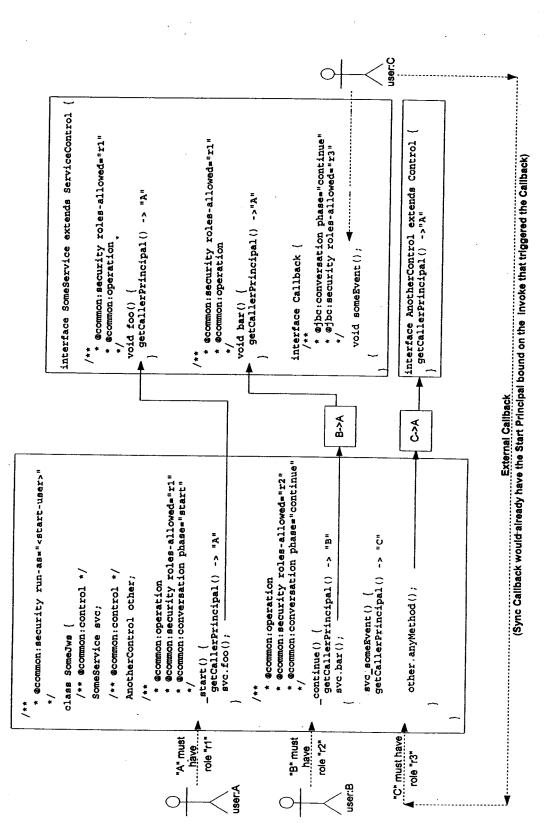


FIG. 13 OF 15 REPLACEMENT SHEET

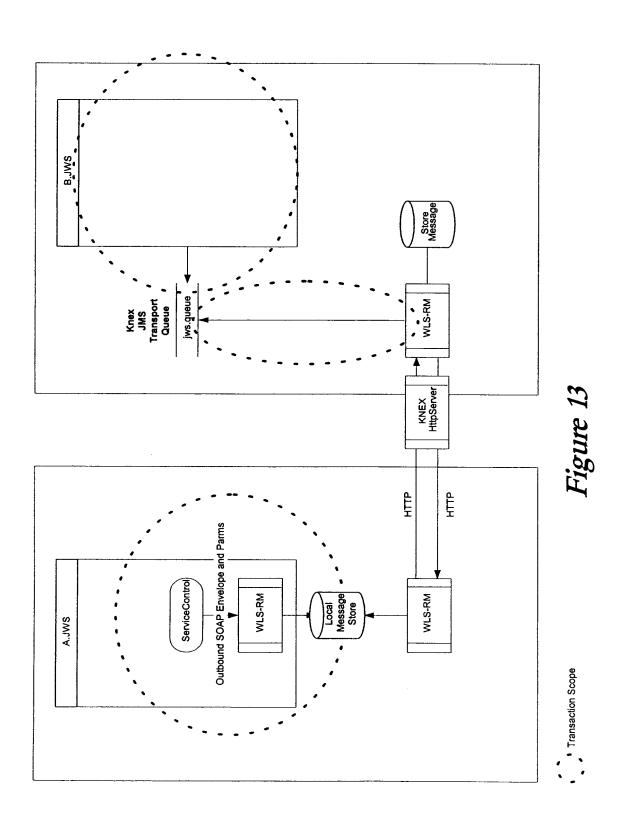


FIG. 14 OF 15 REPLACEMENT SHEET

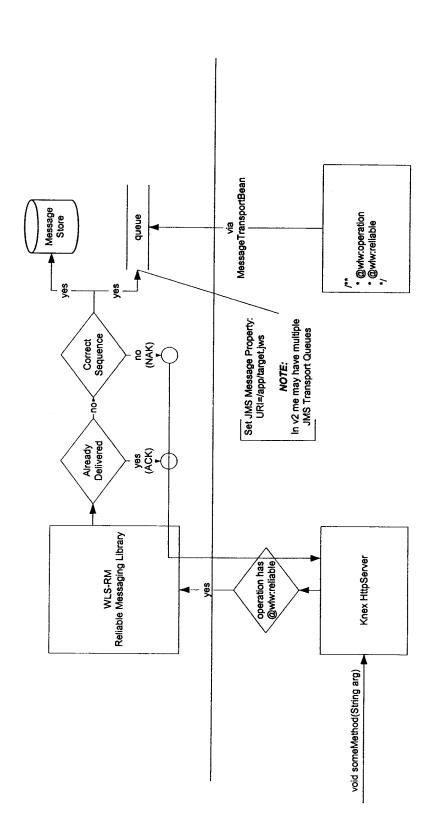


Figure 14

FIG. 15 OF 15 REPLACEMENT SHEET

```
public
           interface ServiceInterceptor {
           * Provides initialization data to the interceptor implementation. This method
        * will be called before any call to "handle" methods.
         * @param config configuration paramaters defined through config
                                                                                 - data annota tions
       * @param wsdl the definition for this service
      public void init(Map config, XMLInputStream wsdl);
         * The interface called from the knex runtime to allow top
                                                                         - level
         * containers to interrogate and/or manipulate the incoming XML
         * request. The request respresents the entire payload of the
        \star request. This interface is invoked before any paramter
                                                                         - xml
    * maps are run.
         * @param xmlRequest The request that is targeted to an @operation
   * method.
     * @return an XMLInputS
                                  tream that will be delivered to an @operation
      * method on the current service.
        public XMLInputStream handleRequest(XMLInputStream xmlRequest);
        * The interface called from the knex runtime to allow top
     * containers to interro gate and/or manipulate the outgoing XML
         * response. The response respresents the entire payload of the
        * response. This interface is invoked after any return
    * maps have run.
         * @param xmlResponse The response that was generated by an @oper
                                                                                  ation
   * method.
         * @return an InputStream that will be returned to the caller of the
   * service.
  */
        public XMLInputStream handleResponse(XMLInputStream xmlResponse);
        \star The interface called from the knex runtime to allow top
                                                                         - level
         * containers to interrogate and/or manipulate the outgoing XML
         * response. The response respresents the entire payload of the
   * response.
         \star @param xmlResponse The response that was generated by an @operation
   * method.
    * @return an InputStr
                                 eam that will be returned to the caller of the
   * service.
  */
       public XMLInputStream handleFault(XMLInputStream xmlFault);
           * Called when the service instance is being removed. After destroy is called,
     * none of the "handle" methods wi
                                            ll be calls.
   public void destroy();
```

}